AMENDMENTS TO THE CLAIMS

Please amend claim 1 as follows:

1.   (Currently Amended) A multi-rate transmission apparatus in which a coding ratio is varied in accordance with an input modulation operation mode to allow a transmission operation with a single input clock signal ~~in accordance with the~~ for any input modulation mode, comprising:

data processing means for reading in data having a bit width suitable for a modulation system corresponding to the input modulation mode;

coding means for performing coding processing parallely for the data read in by said data processing means; and

transmission means for transmitting the data, for which the coding processing has been performed, in accordance with the modulation system and the varied coding ratio.

2.   (Original) A multi-rate transmission apparatus as claimed in claim 1, wherein said data processing means includes:

a transmission memory for storing transmission data of m-bit strings where m is a natural number and varies in accordance with the modulation system;

means for assembling the data of m-bit strings into data of n-bit strings fixed to be used for coding processing, n being a natural number; and

a memory for temporarily storing the data of n-bit strings.

3.   (Previously Presented) A multi-rate transmission apparatus as claimed in claim 1, wherein said coding means includes:

a register set for storing data of n-bit strings, n being a natural number;

a plurality of convolution coding circuits for fetching the data of n-bit strings from said register set and performing convolution processing for the data of n-bit strings in a unit of n-bit strings fixed;

a puncture circuit for performing puncture processing for coding results outputted from said plurality of convolution coding circuits and outputting coded data; and

a data discrimination circuit for discriminating bits corresponding to the coded data outputted from said puncture circuit.

4.   (Original) A multi-rate transmission apparatus as claimed in claim 1, wherein said transmission means includes:

a transmission control circuit for determining a transmission timing;

a modulation data allocation circuit for allocating the coded data to modulation data; and

a transmission circuit for transmitting the modulation data at a clock timing from said transmission control circuit.

FEE CALCULATION

Any additional fee required has been calculated as follows:

____ If checked, "Small Entity" status is claimed.

	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	Additional Fee
Total	4	- 20* =		x $18	$0.00
Independent	1	- 3** =		x $86	$0.00
First presentation of Multiple Dependent Claim(s) (if applicable)					
				TOTAL	$0.00

*not less than 20   ** not less than 3

No fee is believed due.

In the event a fee is required or if any additional fee during the prosecution of this application is not paid, the Patent Office is authorized to charge the underpayment to Deposit Account No. 50-2215.

CONTINGENT EXTENSION REQUEST

If this communication is filed after the shortened statutory time period had elapsed and no separate Petition is enclosed, the Commissioner of Patents and Trademarks is petitioned, under 37 CFR 1.136(a), to extend the time for filing a response to the outstanding Office Action by the number of months which will avoid abandonment under 37 CFR 1.135. The fee under 37 CFR 1.17 should be charged to our Deposit Account No. 50-2215.